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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/767,402	01/29/2004	Ming-Jiunn Jou	659944-100001	2872	
7590 06/29/2005			EXAMINER		
JONES DAY		WOJCIECHOWICZ, EDWARD JOSEPH			
Suite 4600 555 W. Fifth S	treet		ART UNIT	PAPER NUMBER	
Los Angeles,	CA 90013-1025	2815	<u> </u>		
			DATE MAILED: 06/29/2003	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	on No.	Applicant(s)				
Office Action Comments		10/767,40)2	JOU ET AL.				
	Office Action Summary	Examine		Art Unit				
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Period fo	 The MAILING DATE of this community 	cation appears on the	cover sneet wi	tn tne correspondence add	iress			
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNI- nsions of time may be available under the provisions. SIX (6) MONTHS from the mailing date of this comm period for reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months at ed patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no evenuication. b) days, a reply within the state tutory period will apply and wwill, by statute, cause the app	ent, however, may a r utory minimum of thin Il expire SIX (6) MON lication to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this contained. ANDONED (35 U.S.C. § 133).				
Status	•							
1)	Responsive to communication(s) file	d on	-					
2a) <u></u> □	2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.							
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practic	ce under <i>Ex parte Qu</i>	ayle, 1935 C.L). 11, 453 O.G. 213.				
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-58 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-58 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted or b) ction to the drawing(s) b the correction is requir	oe held in abeyar ed if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CF				
Priority (under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (Pmation Disclosure Statement(s) (PTO-1449 or Province (PTO-1449)		Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO)-152)			

Application/Control Number: 10/767,402

Art Unit: 2815

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hosoda et al (6,738,402) in view of Lee et al (5,789,768). The reference to Hosoda teaches the main structural features of the invention. For example, as shown in FIG. 4, Hosoda forms a substrate(201), a first cladding layer (212), an active layer (213), a second cladding layer (214), a "cushion" layer (241) which has a high resistivity, and a contact layer (251).

Hosoda also teaches using the same materials as claimed by applicants, including an AlGaInP active layer that also may be comprised of a multiple quantum well structure (col. 8, l. 64).

While Hosoda does not explicitly describe a transparent conductive layer formed on the contact layer, Lee describes such a layer (e.g. abstract), and given that Hosoda is also a light emitting device, such an element would be typically included in the Hosoda structure as well. In addition, Lee also teaches the formation of a Schottky barrier with the transparent conductive layer as recited in claim 43. See the discussion by Lee at col. 5, I. 5-20. Note also the DBR layer (80) formed by Lee in FIG. 5B.

Taken together, these references teach all of the features of the claimed invention, and one skilled in the art would be motivated to combine these references in order to maximize the efficiency of the light emitting devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Wojciechowicz whose telephone number is 571-272-1739. The examiner can normally be reached on Monday through Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edward Wojciechowicz Primary Examiner Art Unit 2815

EW: ew